

	OCUMENTATION PAGE	BEFORE COMPLETING FOR
1. REPORT NUMBER	GOVT ACCES	ION NO. 3. RECIBIENT'S CATALOG NUMBER
DR 1117	114 ERADO	6m/H31-DR-1117!
A_TITLE (and Subtitle)		S. TYPE OF REPORT & PERIOD COVE
19701B MLRS,		
Missile Number 214	10 T 100	
Round Number B-74	18 January 1980	6. PERFORMING ORG. REPORT NUMB
7. AUTHOR(e)		8. CONTRACT OR GRANT NUMBER(*)
		$(16) \qquad (15)$
White Sands Meteorol	_ <u>~</u>	DA Task/1F665702D127 02
9. PERFORMING ORGANIZATIO	N NAME AND ADDRESS	10. PROGRAM ELEMENT, PROJECT, T AREA & WORK UNIT NUMBERS
		(i)
		7/16
11. CONTROLLING OFFICE NA	ME AND ADDRESS Research & Development Cmd	12. REPORT DATE
Atmospheric Sciences	nesearch a bevelopment CMd Laboratory	/ / / DONIN
White Sands Missile	Range: New Mexico 88002	13. NUMBER OF PAGES
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UNCLASSIFIED
SECURITY CLASSIFICATION OF THIS PAGE (When Date Entered)

4/1/2000

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INTRODUCTION

19701B MLRS	, Missile Humber_	214	, Pound Number B-74
			le Range (WSMR), Mew Mexico,
at 1200 MST on 18			
1000 MST			
	DISCUS	5 5 10N	
Meteorological data were	e recorded and redu	uced by the W	hite Sands Meteorological
Team. Atmospheric Science	es Laboratory (ASI	L), White San	d: Missile Range, Lew Mexico
The data were obtained b	by the following me	ethods:	
 Observations 			
a. Surface			
	and sunface observ	ations to inc	lude pressure, temperature
			3), Wind direction and speed
and cloud cover were made			
			xisting pole-mounted and
			peed and direction from one
anemometer was also prov			
b. Upper Air			
(1) Low 16	evel wind data were	e obtained fr	om RAPTS T-9 pibal observa-
tion at:			
	CLTE AND	AL TITUDE	
	SITE AND	ALTITUDE	
	LC-33 2Kr NICK 2Kr		
(2) Air st	tructure data (raw ^a	insonde) were	collected at the following
Met Sites. Data were co			
500-feet increments.			AND THE PERSON OF THE PERSON O
	SITE AF	ND TIME	

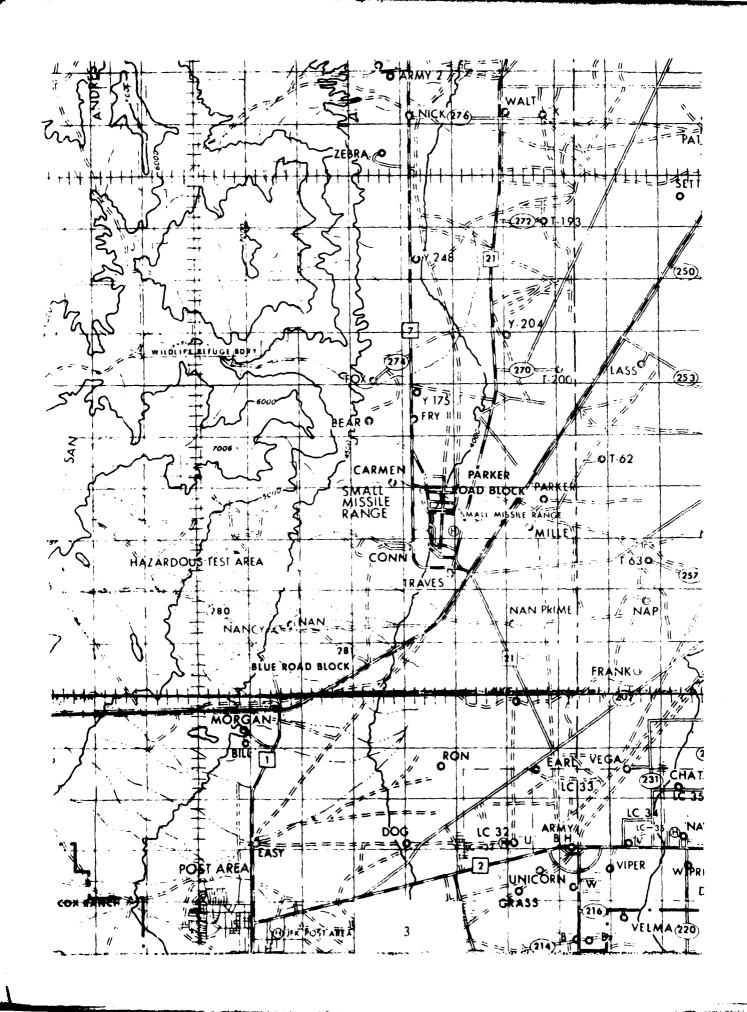
WSD 1200 MST

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₩ ET	Y186,500	PO	DLE 3 O				
MET			L-579				
	Y185,500						
X475,000	Y185,000	X485,500		X486,000	RAPTS T-9 BLOCKHOUSE	X496,500	X487,000

- 1. MET TOWER 4 Pendix Model T-20 Anemometers at 12 ft, 62 ft, 102 ft, and 202 ft with E/A recorders.
- 2. POLE ANEMOMETER Bendix Model T-120 with E/A recorders.
 - (a) Pole #1 38.7 ft.
 - (b) Pole #2 53.0 ft.
 - (c) Pole #3 83.6 ft.
- 3. RAPTS T-9 Radar Automatic Pilot-Balloon Tracking System T-9 Radar.



Surface Observations taken at 1200 MST, 18 January 1980, at LC-33, 197018 MLRS, Missile Number 214, Round Number 8-74.

ELEVATION	3977.30	LiVier
PRESSURE	875.4	MBS
TEMPERATURE	17.2	ОС
RELATIVE HUMIDITY	28	
DEW POINT	-1.7	0(
DENSITY	1046	GM/M ³
WIND SPEED	07	KTS
WIND DIRECTION	180	DEGREES
CLOUD COVER	10	Sc

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POLE #1 X485,87 Y185,95 H4018.7 38.7 ft	8.90 4		POLE #2			FOLE #3 X435,077.20 Y136,116.05 94063.92 03.6 ft. AGI			
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	Spier	T-TIME SEC	DIR DEG	SPEED KTS	
-30	195	17	- 30	200	12	- 30	192	14	
-20	200	18	-20	215	09	-20	189	14	
-10	190	17	-10	195	10	-1)	185	16	
0.0	200	14	0.0	200	10	(6.)	200	12	
+10	200	116	+10	195	10	+1)	190	14	

TABLE 3 LC-33 METEOROLOGICAL TOWER ANEMOMETER MEASURED WINDS (202 FT TOWER)

LEVEL #1, 12 X484,982.64		73, H3983.00 (base)	LEVEL #2, 62 FEET X484.982.64, Y135,057.73, H3983.00 (base)			
T-TIME SEC	DIR DEG	SPEED ETS	T-TIME SEC	DIR DEG	SPEED KIS	
- 30	181	09	- 30	178	11	
-20	181	08	-(%)	192	10	
-10	178	. 07	-1.)	187	10	
ა.0	180	. 07	0.0	175	16	
+10	150	10	+10	180	16	

LEVEL #3, 10 x484,982.64	02 FEET Y135,057.7	3, H3983.00 (base)	1EVEL #4, 202 FIFT V484,082, V185,057.73, H3983.00 (base)			
T-TIME SEC	DIR DEG	SPEFO KTS	T-TIME SEC	PIR DEG	SPEED ATS	
-30	180	12	- 30	180	18	
-20	186		'()	182	18	
-10	185	16	-11	180	19	
0.0	177	.15	0.0	179	17	
+10	178	14	+10	179	118	

PILOT BALLOON MEASURED WIND DATA

TABLE 4	 -	_								
RELEASED	FROM	LC-33		DA1E	18 Janua	ry 1980			TIM' 120	O MST
TRACKER		COORDINATE	s (ws	LM) X-	486.037.24	γ	182	350.16	397	7.30
NOTE: W	IND DI	RECTIONS ARE	REFE	RENCED T	TRUE NORT	н.				
HEIGHTS /	ARE ME	TERS AGL <u>XX</u>	OR F	EET AGI	'					
HEIGHT AGL	DI REC DEGRE	TION SPEED STS			DIRECTION DEGREES	SPEED KIL		HEIGHT AGL	DEGRIES DEGRIES	
SFC	180	08			! 				<u> </u>	
90	217	22					1			! !
150	223	23		*******		· • · · · · ·				
210	223	23	_							
270	223	20								
330	228	18	} 		 	· •				
390	236	18			 					!
500	231	18			; ; ;					
650	214	16	L.	· · · · · · · · · · · · · · · · · · ·						
800	226	08								
950	229	09				·				
1150	248	08			 			·		
1350	250	09			; 	: •				
1550	247	16	_	 -	, 	 				
1750	236	20	'		 					
2000	236	26				·		·		
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PILOT DALLOON MEASURED WIND DATA

TABLE	5								
RELEASED	FROM Nick	Si <u>te</u>		DATE	18 Januar	y 1980		_ TIM! 1,200	MST
TRACKER	(1)(DRINATE	`- (W	STM) X-	470,734.56	Y#2	55,775.64	412	6.57
NOTE: W	IND DIRECTI	m AR	REE	EPENCED T	TRUE NORT	н.			
HEIGHTS	ARE METERS	$AGL_{\underline{X}\underline{X}}$							
HEIGHT AGL	DIRECTIC: DEGREE	SIEED		HETGHT AGE	DIRECTION DEGREES	50-03 1015		DIFFCTION DESCRIPT	
SFC	190	. 05			· · · · · · · · · · · · · · · · · · ·			 	
90	MISG	MISG			ļ	1			
150	203	17			ļ	· · · · ·		: 	
210	200	19							
270	188	15			ļ	+			!
330	181	17				· -			, ,
390	187	19			-				
500	197	18	: ;			+			•
650	206	18			ļ	<u> </u>			
800	217	<u> 13 </u>							<u> </u>
950	210	18	1						
1150	214	24							
1350	220	24				 			
1550	238	27	}						
1	246	36	1						
2000	242	34						*******	
		 							
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LEVEL 20026 SANUS
IGNIFICANT LEVEL 0180U20026 WHITE SANUS

GEODETIC COORDINATES 32.40043 LAT DEG 106.37033 LON DEG

TABLE 6

PRESSURE	E GEOMETRIC	TEMPE	TEMPERATURE	REL.HUM.
MILLIBAR	S MSL FEET	DEGREES	CENT 16KADE	רבאירוא. האירוא ה
876.6	3989.0	17.3	; !	·
850.0	•	n	-6.3	24.0
•	6822.4	7.8	•	
732.2	•	3.3	•	•
•	0085.	•	-5.7	•
4.769	173	-2.3	-b.5	•
11	•	6.6-	-12.1	84.0
9.095	5826.	-11.6	-14.3	•
543.8	16591.3	-12.9	•	•
535.4	_	-13.5	-16.0	
9	•	-17.3	•	0.96
479.2	•	O	÷	
433.2	-		7	6
400.0	-	-27.9	-34.9	51.0
376.2	_	-31.3	ģ	0.09
300.0	-	9.44-	49.	;
250.0	•	-54.8		
217.1	•	-60.0		
202.5	-	-55.2		
200.0	_	-54.4		
	39610.8	-53.3		
169.0	-	-55.3		
150.0	_	-59.0		
157.0	_	9.09-		
129.6	•			
112.2	51228.1	-63.2		
100.0	_	-62.0		
9.78		•		
1	•	-58.0		
10.0	60084.7	•		
:	•	9		
54.0	_	6		
•	772	-61.5		
÷	0.94	;		
37.2				
ė	8342.	-56.9		
26.0	34.	-56.6		

છ ૧૯																																													
COORDINATE	LON DE		INDEX	OF	KEPHACT 10N	1.000260	1.000260	1.000252	1.000246	1.000243		00023	÷	1.000231	٠	•	٠	1.000220	1.000218	1.000215	1.000212	1.000209	1.000205	1.000202	1.000198	1.000194	1.000191	1.000167	1.000164	•	.000	.000.	1000.	.0001	•0001	•	.000	.00015	1.000152	.00014	1.000140	1.000142	1.000140	~	1.000134
6E0DETIC 32.40	106.		ITA	SPEED	\$ 000 X	15.0	•	•	14.3		13.7	'n.	'n.	•	ė (÷.	22.6	54.0	27.0	28.7	30.9	33.7	35.9	37.9	39.8	41.3	ů.	0 · 10 · 10 · 10 · 10 · 10 · 10 · 10 ·	å.	or	٠,	200	•	3 (10 (17)	Ď.	٠	.	•	48.2	۲.	Ġ.	ò	ŝ	8	60.8
			WIND DAT	DIRECTION	DEGREESTIN	220.0	220.0	219.7	219.4	219.1	218.7	222.0	233.7	241.7	Z+2•I	242.3	240.7	•	2,22	234.7	205.0	256.1	257.1	238.1	5.28.5	239.4	5.44.9	259.2	23/15	235.9	0.10	0.000	7.202	6.162	7.107	252.0	232.5	224.2	237.8	3	ξ.	Ω	244.1	545.4	242.7
UATA 026 NUS			ዾ		KNCIS	664.8	664.7	602.3			656.5	654.7	653.1	6.109	650.0	649.5	•	647.3	640.4	645.1	•	642.5	641.1	639.7	638.3	637.0	635.6	634.2	032.0	631.4	•	-	070	020	4.070	0 + 29	622.1	_	6,0,3	619.1	617.9	ċ	615.0	614.4	613.0
UPPER AIM UA' 0180U20026 WHITE SANUS		IABLE /		ပ္သ	METER	1048.7	1048.5	1037.4	1025.7	1012.6	4.666	987.0	973.7	929.5	4.0.46	931.6	917.8	903.1	886.7	875.4	862.4	849.7	837.0	824.5	812.2	800.0	788.1	776.3	/ · ha/	753.2	# · · · · · · · · · · · · · · · · · · ·	1070	T . / T /	8•50/	0.74.0	683.9	673.0	662.1	1.169	640.3	ė	~	606.7	÷	588.7
,			REL.HUM.	PERCENT		30.0	29.9	26.4	24.8	•	•	•	•	37.6	•	42.4	46.3	•	•	•	•	•	•	•	•		80.5		8 ? . G	7.10	2 4 6 7	27.2	3 6	•	•	•	•	•	•	•	•	•	•	•	61.2
ET MSL MST			TEMPEKATURE	DEWPOINT	CENI IGRADE	†	·.5	-3.9	-6.3	-6.3	-6.5	6.8	0.7-	1.1	•	0 · / ·		-6.5	*5.8	-5.8	0.9-	-6.3	-6.9	7.7	ν. Β.	h •6•	-10.2	-11.1	0.21-	3 · · · · · · · · · · · · · · · · · · ·		1001		6.01	7.1.	-17.6	18.3	1.61.	-20.4	-22.1	-23.8	-25.5	-27.3	6	-30.9
O FE HRS			TEMP	AIR			۲	15.3	ń	÷	0	•	5.	, o	v .		7 · 1	2.3	1.5	ů	9:-	-1.8	-2.9	0 · 5 ·	ים	5.9		9.0	,	70.1	40	100) :	***	n,	6.01	: ,	ė d	σ ν (N.	2	-22.7	23.	24.	-25.6
VDE 39	NO. 26		PRESSUKE		HILLIBARS	676.6	876.3	460.1	445.5	459.9	Ø14.V	2.000	785.0	1.177	7.00.	6.2h)	759.5	115.6	102.3	689.1	076.1	663.3	650.7	2999	6.020	610	502-1	0.060	3.670	1900	1000	14.0		7.4.4	,	1.500	0.06	180.0	•	7.00	•	ċ	36.	27.	+1R.+
STATION ALT	SCENSIO		GEOME INIC	ALI 17UDE	MSL FEET	3989.0	4000.0	4500.0	0.000	5500.0	600 0.0	6500.0	70uu.0	1500.0	8000.0	8500.0	0.006	9500.	.0000	500.	11000.0	11500.0	12000.0	12500.0	0.0001	2580.	4000	14500.0	0000	15500.0		17000.0	0.00074	0.000.1	0.0000	18500.0	0.0061		0000	500	1000		000	2500.	23000.0

GEODETIC COORDINATES 32.40043 LAT DEG 106.57033 LON DEG	INDEX OF REFRACTION	1.000131	1.000129	1.000127	1.000125							0.1000.1		1.000100			100000	1.000097	1.000096	1.000094	•	1.000001	1.000069	1.000087	1.000006	1.000064	1.000062	1.000061				1.000072	1.000070	1.000068	1.0000.1	1.000065	1.000004	1.000062	1.000061	1.000060
GEODETIC 32.40 106.5	PEED NOTS	63.2	6.49	66.2	67.2	61.9	68.5	68.7	68.9	9.89	99.4	7.79	100	4.00	62.7	61.7	63.1	66.1	6.69	74.2	77.3	78.9	80.0	80.2	90.4	80.0	4.67	77.6	75.9	7.4.	73.0	71.8	70.8	72.1	74.7	90.4	83.3	83.0	a. 08	74.0
	WIND DATA DIRECTION S DEGREES(IN) K	243.1	243.3	243.4	243.4	243.3	245.1	242.8	242.5	242.1	24142	1.1.2	2.04.0	4.44.0	257.5	236.9	230.8	23/•1	237.8	238.7	239.8	241.1	242+3	243.5	544.6	242.5	242.9	240.4	246.9	5+Q+Z	54642	2-1-2	253.3	h•202	251.0	240.6	247.0	240.1	Ω.	245.3
JATA 26 35 ONT)	SPEED OF SOUND KNOTS	611.7	610.4	6.009	607.5	600.0	604.3	602.7	601.1	599.4	29/08	1.000	0.4400 0.4004	392.0	4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	507.8	2000	504.4	502.7	561.0	579.3	577.6	575.9	574.7	573.5	572.3	571.2	570.0	568.8	571.4	574.1	575.8	577.2	577.3	576.9	576.5	576.1	72	~	274.6
UPPER AIR DATA 0180020026 WHITE SANDS TABLE 7 (CONT)	DENSITY S GM/CUBIC METER	579.0	269.4	560.1	550.9	542.0	533.0	524.2	515.6	507.1		7 · O a ·	0.704	464	1000	451.4	# # # # # # # # # # # # # # # # # # #	436.1	428.6	421.2	414.0	406.9	399.9	392.2	384.4	376.8	369.4	362.1	355.0	343.4	332.1	322.4	313.3	305.9	299.1	292.6	•	•	'n	267.9
	REL.HUM. PERCENT	56.4	51.7	53.7	56.8	29.9	59.7	59.4	59.1	58.8	0 6	000	20.00	27.6	57.1	51.9**	**9***	37.4**	30.1**	22.9**	•9•	•	1.1**																	
T MSL MST	TEMPERATURE R DEWPOINT EES CENTIGRADE	-32.7	-34.6	-35.3	-35.9	-36.4	-37.7	-39.0	P.04-	-41.5	2 · 2 · 1	T • # 5	***	0.04	0.04-	-51.5	-53.7	-56.3	-59.2	-62.5	+-99-	;	-85.2																	
89.00 FEET MSL 1200 ARS MST	TEMP AIK Degrées	-26.7	-27.7	-28.9	-30.1	-31.3	-32.6	-33.9	-35.2	-36.4	1976	0.60	0.04	0 0 0 0 0	144.0	1,54	₽•9ħ-	-48.1	4.64-	50 • 7	-52.0	-53.3	-54.6	-55.6	-26.4	-57.3	7.85	1.65-	190	0.85	-56.0	1040	53.0	23.0	-53.9	-24.5	±54•5	וכש	n (-52.6
UDE 39	PRESSURE MILLIBAKS	1.60+	401·S	392.8	384.5	376.4	568.2	360.2	352.3	344.0	10/00	422.4	315.5	308.	50100	1.562	28B.4	281.1	275.3	769·n	262.8	256.8	250.9	7.00 P	239.1	233.5	6.722	C•777	717.5	412.1	207.0	7.207	1.00	0.761	C-881	183.9	179.6	Ω.	• •	16/13
STATION ALTITION ALTITION AND ASCENSION NO.	GEONE THIC ALIITUUE MSL FEET	23500.0	24000.0	24500.0	25000.0	25500.0		26500.0	27000.0	27500.0	0.0002	0.00502	0.0000	300000	30500.0	31000.0	31500.0	32000.0		33000.0	33500.0	34000.0	34500.0	35000.0	35500.0	36000.0	36500.0	0.00075	37560.0	2900000	38500.0	0.00065	0.00560	0.0000	40500.0	41000.0	41500.0	42000-0	25.00	4.3000.0

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTI- 18 JAN: 80 ASCENSION NO	TUDE 39	49.00 FEET MSL 1200 HRS MST	_	UPPER AIR DAT 0180020026 WHITE SANDS	DATA 26 US		6E0DETIC 32.40	DETIC COOKDINATES 32.40043 LAT DEG
	•			TABLE 7 (C	(CONT)		•	
GEUME THIC	PRESSUME	Ĭ			SPEED OF	WIND DATA	ITA	INDEX
ALITODE MSL FEET	HILLIBAMS	DEGREES CENTIGRADE	PERCENT	GM/CUBIC METER	SOUND KNOTS	DIRECTION DEGREES(TN)	SPEED	OF REFRACTION
43500.0	163.3	-56.4		262.4	573.6	245.1	67.7	1.000058
0.00044	159.4	-57.1		257-1	572.6	245.2	63.0	1.000057
45000	152.0	-58.6		C.1C2		245.6	א ה ה	1.000056
45500.0		-59.2		241.5		245.9	5.00	
46000.0	Roth?	-59.6		236.2		246.3	53.0	•
•	141.5	-60.1		231.0	508.7	240.7	53.6	1.000051
47500.0	134.6	100.0		222.00		247.2		1.000050
0.00084	131.4	-60.1		214.9	56.00	248.0	60.8	
48500.0	758-5	-60.2			568.5	248.4	61.5	1.000047
	125-1	-60.8		205.2		248.9	62.3	1.000046
0.00564	122.1	-61.3		200-8		249.1	61.4	1.000045
•	119.1	-61.9		196.5	5c6.3	249.1	59.3	+00000
•	116.5	\$		192.2		248.9	57.3	1.000043
0.00015	6.511	-63.0		188.0		248.1	55.8	.0000
0.00516		1000		183.6		2-1-2	54.5	*0000·
22500.0	100.0	1666 1666		178.9	0.00 0.00 1.00 1.00 1.00 1.00 1.00 1.00	240.4	0.4.4.00	
53000	707	-62.3		169.		242.2	30.00	1.000039
53500.0	100.3	-62.0		165.6		544.6	56.9	1.000037
24000.0	97.9	-62.1		161.6		244.7	57.3	1.000036
54566.0	95.5	-62.3		157.8		245.4	57.4	
0.0000	93.6	162.4		154.1		246.3	57.7	1.000034
0.00500) i	62.6		150.5		247.9	58.7	.00003
56500.0	86.0	-62-3		140.0	7.00.	*****	7.65	1.000033
57000.0	84.0	-61.3		139.0		249.0	57.1	1.00003
57500.0	82.5	-60.3		135.1		248.8	51.2	
28000.0	80.5	-59.4		131.2		248.5	39.7	1.000029
58500.0	78.0	#•PS-		127.5		547.9	8	
29000-0	7.97	-58-6		124.5		248.3	19.0	1.000028
0.00060		0.60		122.1	569.5	249.6	10.0	
0.0000	73.65	161.4		119.6	2000	249.6	•	70000.
61000.0	4.69	0.404				C . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 .	•	9200001
61500.0	67.9	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		A-611		0 4 7 7	•	20000
0.0000	2.09	9.50		110.1	V	24.5.4	•	1.000025
62500.0	9.49	-64.5		107.8	503.0	24.5.0	200	1.000025
63000.0	63.1	-65.0		105.5	•	244.5	21.4	1.000053

The second secon

TOP AND WE CHOOSE SCHOOL OF THE PARTY	UPPER AIR DATA	0.000 F
ALLUN ALILIUCE SYSTIUM PERI MAL	97070010	
16 CAN 80 1200 HRS MST	WHITE SANDS	25.
CENSION NO. 26	(+100) r L 100+	106.

1C COORDINATES .40043 LAT DEG .37033 LON GEG 6100000 .000019 1.000018 .000016 .000015 .000015 1.000023 1.000022 1.000022 1.00001 0.000001 •000050 •10000 .000018 .000017 1.000017 9100001 1.000015 .000014 .000014 .0000. 1.000013 .000013 .0000 .0000 .000012 .000012 .000012 .00001 .00001 .0000. .00001 .000010 .000010 .000010 REF RACTION INDEX SPEED KIJOTS WIND DATA DIRECTION DEGREES(IN) 252.2 272.6 287.6 296.9 311.4317.8 310.5 2223.4 2223.4 2223.6 2223.6 223.5 225.7 253.2 253.8 44.8 251.0 275.0 295.2 345.9 54.9 38.0 260.5 320.9 SPEED OF 561.8 563.5 565.1 566.8 568.4 568.4 567.8 567.1 571.2 571.6 571.6 571.4 570.8 570.6 570.3 570.3 568.0 564.8 570.4 570.8 SOUND KNOTS 72.8 70.9 86.9 85.0 83.1 6.87 76.8 69.1 67.5 65.9 64.4 61.5 58.6 57.1 55.7 54.4 53.0 51.7 50.4 46.8 49.5 48.0 103.3 60.1 89.0 81.1 GM/CUBIC METER **DENSITY** REL.HUM. PERCENT MILLIBANS DEGREES CENTIGRADE DEMPOINT TEMPERATURE -58.7 -58.5 -58.2 -58.0 -57.8 -56.7 57.5 -56.9 0.49. -62.7 -60.8 -61.3 -59.4 -58.1 -58.3 -58.9 -57.1 -56.8 -56.7 -56.6 9.09 -60.0 -58.9 -57.3 -56.8 -61.5 -60.3 -60.3 -61.2 -58.8 -58.2 -57.9 -58.5 -58.7 PRESSURE 39.7 50.0 47.C 8.51 33.6 32.8 32.0 31.2 8.62 55.1 54.4 53.1 51.8 40.64 48.2 43.1 12.1 41.1 36.9 199 5.5 *** 1.63 8.4 27.1 70000.0 71000.0 71500.0 72000.0 74500.0 75500.0 76000.0 76500.0 77500.0 79000.0 0.00099 69000.0 77000.0 78500.0 80200.0 63500.0 64000.0 04200.0 65000.0 0.00300 66500.0 67000.0 67500.0 0.00089 68500.0 695uu.0 73500.0 15000.0 80000.0 **GEUME THIC** 75000-0 ALTITUDE MSL FEET

39.00 FEET MSL	18 JAN. BO 1200 HKS MST ASCENSION NO. 26
ALTITUDE 394	80 N NO. 26
STATION	ASCENSIO

6E00E110	106.
MANDATORY LEVELS 0180020026 WHITE SANDS	TABLE 8

GEODETIC COORDINATES 32.40043 LAT DEG 106.37033 LON DEG

PHESSURE	PHESSURE GEUPOTENTIAL		TEMPERATURE	REL . HUM.	WIND DATA	ATA
MILLIBARS	FEET	AIR Degrees	DEWPOINT CENTIGRADE	PERCENT	DIRECTION DEGREES(IN)	SPEED KNOTS
850.0	404%	13.9	-6.3	24.	219.5	14.4
800.0	6503.	8.8	-6.8	32.	222.1	13.1
750.0		4.7	-7.2	42.	243.3	17.4
700.0	_	1.4	-5.7	59.	235.1	27.3
650.0		-3.0	6.9-	74.	237.1	36.0
0.009		-7.7	-10.4	81.	240.0	43.1
550.0	16286.	-12.4	-17.4	•09		47.6
500.0		-17.3	-17.8	96		49.8
450.0		-22.2	-24.7	80.		9.09
0.00%		-27.9	-34.9	51.	243.3	65.0
350.0	27133.	-35.5	9.04-	59.		68.8
300.0		9.44-	9.61-	57.		62.5
250.0		-54.8		•		90.08
200.0		-54.4			252.5	71.3
175.0	_	-54.8				63.0
150.0		-59.0				54.4
125.0		-60.8				62.3
100.		-62.0				50.9
80.0		-59.1				37.4
70.0		-62.0			245.0	11.9
0.09		-65.2			251.9	16.8
50.0		-61.5				3.2
0.04		-58.4				14.5
30.0	•	-56.9				6.9

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.